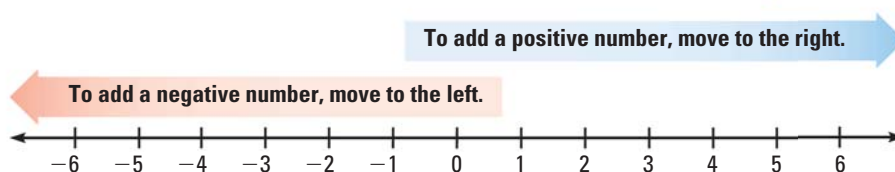


# Skills Review Handbook

## Operations with Positive and Negative Numbers TEKS 8.2.B

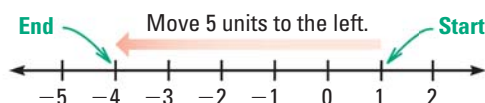
To add positive and negative numbers, you can use a number line.

To subtract any number, add its opposite.



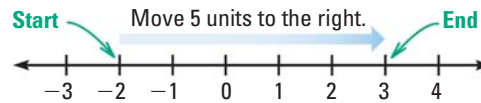
### EXAMPLE Add or subtract.

a.  $1 + (-5)$



▶  $1 + (-5) = -4$

b.  $-2 - (-5) = -2 + 5$     The opposite of  $-5$  is  $5$ .



▶  $-2 - (-5) = 3$

To multiply or divide positive and negative numbers, use the following rules.

- The product or quotient of two numbers with the *same* sign is *positive*.
- The product or quotient of two numbers with *different* signs is *negative*.

### EXAMPLE Multiply or divide.

a.  $3 \cdot 7 = 21$

c.  $18 \div 2 = 9$

e.  $-3(7) = -21$

g.  $-18 \div 2 = -9$

b.  $-3(-7) = 21$

d.  $-18 \div (-2) = 9$

f.  $3(-7) = -21$

h.  $18 \div (-2) = -9$

### PRACTICE

Perform the indicated operation.

- |                  |                   |                     |                     |                    |
|------------------|-------------------|---------------------|---------------------|--------------------|
| 1. $2 + (-8)$    | 2. $5 - 12$       | 3. $-6(10)$         | 4. $-30 \div (-2)$  | 5. $-4 + 6$        |
| 6. $7(-5)$       | 7. $18 - 10$      | 8. $-7 + (-12)$     | 9. $11(4)$          | 10. $81 \div (-9)$ |
| 11. $-12 \div 3$ | 12. $-9(-8)$      | 13. $-1 + 13$       | 14. $45 \div (-9)$  | 15. $-6(12)$       |
| 16. $14 - (-9)$  | 17. $-32 \div 16$ | 18. $-23 + (-5)$    | 19. $-8 - (-5)$     | 20. $17 - (-18)$   |
| 21. $-9(-1)$     | 22. $-3 - (-11)$  | 23. $-18 \div (-3)$ | 24. $14 + (-7)$     | 25. $5(-3)$        |
| 26. $21 + (-8)$  | 27. $-2 - 10$     | 28. $-9 + 26$       | 29. $-20 \div (-4)$ | 30. $22 \div (-2)$ |
| 31. $-7(-6)$     | 32. $1 - 24$      | 33. $-15 - 2$       | 34. $0 + (-4)$      | 35. $16 \div 8$    |